

DH-IPC-HDBW5541E-Z5E

5MP IR Vari-focal Dome WizMind Network Camera







Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With starlight solution and deep learning algorithm, Dahua WizMind 5 Series network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Face Detection

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

Face Attributes

With deep learning algorithm, the network camera can recognize face attributes, such as gender, age, expression, glasses, mouth mask, and beard.

Perimeter Protection

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

- · 1/2.7" 5Megapixel progressive scan CMOS
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · 20 fps@2592 × 1944, 50/60 fps@1080P (1920 × 1080)
- · WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS
- · 7 mm-35 mm motorized lens
- · 1/1 Alarm in/out, 1/1 audio in/out
- · Max. IR LEDs Length 80 m
- · Micro SD memory, IP67, IK10













People Counting

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/daily reports to meet your requirements.

ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	ecification					General Intelligence	
Camera						Event Trigger	Motion detection, Video tampering, Scene changing, Network disconnection, IP address conflict, Illegal
Image Sensor		1/2.7" 5Mega	apixel progress	ive scan CMOS			Access, Storage anomaly
Max. Resolution		2592 (H) × 19	44 (V)			General Intelligence	Object Abandoned/Missing
RAM/ROM		1 GB/128 MB	,			Heat Map	Yes
Scanning System		Progressive				Video	
Electronic Shutte	er Speed	Auto/Manual	l, 1/3 s-1/100	000 s		Compression	H.265,H.264,H.264B,H.264H, MJPEG (only supported by sub stream)
S/N Ratio		> 56 dB				Smart Codec	Smart H.265+/ Smart H.264+
Minimum Illumir	nation	0.003 Lux@F	1.3			Streaming Capability	3 Streams
Illumination Dist	ance	Distance up t	o 80 m (262 ft	·)			2592 × 1944/2688 × 1520/2560 × 1440/2304 ×
Illuminator On/C	off Control	Auto/Manual				Resolution	1296/1080P (1920 × 1080)/1.3M (1280 × 960)/720P (1280 × 720)/D1 (704 × 576/704 × 480)/VGA (640 × 480)/CIF (352 × 288/352 × 240)
Illuminator Num	ber	3(IR LED)					Main Stream: 2592 × 1944 (1 fps–20 fps)
Lens							2560 × 1440 (1 fps–25/30 fps) 1920 × 1080 (1 fps–50/60 fps)
Lens Type		Motorized va	ri-focal			Frame Rate	Sub Stream: D1 (1 fps-20/30 fps) D1 (1 fps-50 fps)
Mount Type		Board-in					Third Stream: 1080P (1 fps–17 fps)
Focal Length		7 mm-35 mn	n			Bit Rate Control	CBR/VBR
Max. Aperture				hout the zoom	range)	Bit Rate	H.264: 32 Kbps-8192 Kbps H.265: 19 Kbps-8192 Kbps
Angle of View			23°–7° (2592 × 18°–5° (2688 >			Day/Night	Auto(ICR)/Color/B/W
Aperture Type		Auto (HALL)				BLC Mode	BLC/HLC/WDR (120 dB)
Close Focus Dista	ance	0.4 m-2.0 m	(1.31 ft–6.56 f	t)		White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
	Lens	Detect	Observe	Recognize	Identify	Gain Control	Auto/Manual
DORI Distance	W	190m(623ft)	76m(249ft)	38m(125ft)	19m(62ft)	Noise Reduction	3D DNR
	Т	620m(2034ft)	248m(814ft)	124m(407ft)	62m(203ft)	Motion Detection	Off/On (4 Zone, Rectangle)
Pan/Tilt/Rotat	tion					Region of Interest	Off/On (4 Zone)
Pan/Tilt/Rotation	n Range	Pan: 0°-355°;	Tilt: 0°-65°; R	otation: 0°–35	5°	Electronic Image Stabilization (EIS)	Yes
Artificial Intell	igence					Smart Illumination	Yes
		Face detection	on; track; optir	nization; snaps	shot;	Defog	Yes
		report high quality picture; face enhancement; face exposure; face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, calm, happiness, sadness, disgust, surprise,			Flip	0°/90°/180°/270°	
Face Detection					Mirror	Off/On	
I ace Detection		confusion and fear), mask, beard; face matting setting: face, single inch photo; three snapshot			Privacy Masking	Off/On (4 Area, Rectangle)	
		quality priori	methods: real-time snapshot, optimization snapshot, quality priority; face angle filter; optimization time			Audio	, , , , , ,
		setting				Audio Compression	G.711a, G.711Mu, G.726, AAC, G.723
Perimeter Protec	ction	support the o	classification a	ving (the three nd accurate de	etection	Alarm	d./114, d./11Ma, d./20,7WC, d./23
			d human); loite arking detection	ering detection on	n; people	Alaitii	
People Counting		number, and outputting ye Support the c configuration and link alarn Support queu	pass number, early/monthly, counting of nu n. Count numb n. ue manageme n. Count numb	ter number, le and displaying /daily reports. mber in area, er of people o nt, and 4 rules er of people o	and and 4 rules r stay time	Alarm Event	No SD card;SD card full;SD card error;network disconnection;IP conflict;illegal access;motion detection;video tampering;Defocus Detection;scene changing;intrusion;tripwire;aban doned object;missing object;fast moving;parking detection;loitering detection;people gathering;audio detection;people counting;face detection;People counting in area;Stay alarm;People No. exception detection;Queue Management

Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Protocol	IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCf ;RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP ;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMI
Interoperability	ONVIF (Profile S/Profile G/Profile T), CGI, Milstone, Genetec, P2P
User/Host	20 Users
Storage	NAS;FTP;SFTP;Dahua Cloud;Micro SD card 256 GB
Browser	IE (versions newer than IE8), Chrome, Firefox, Safari (versions newer than Safari 12)
Management Software	Smart PSS, DSS, DMSS
Mobile Phone	iOS, Android
Certifications	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Interface	
Audio Interface	1/1 channel In/Out
Alarm	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC
Electrical	

Electrical	
Power Supply	DC 12V (±30%), AC 24V (±30%), PoE (802.3af)
Power Consumption	<12.4W
Environmental	
Operating Conditions	-30° C to +60° C (-22° F to +140° F)/Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F)
Protection Grade	IP67,IK10
Construction	
Casing	Metal
Dimensions	Φ159.0 mm × 117.9 mm (6.26" × 4.64")

0.95 kg (2.09 lb)

1.20 kg (2.65 lb)

Net Weight

Gross Weight

Ordering Ir	nformation	
Туре	Part Number	Description
	DH-IPC- HDBW5541EP-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, PAL
5MP camera	DH-IPC- HDBW5541EN-Z5E	5MP IR Vari-focal Dome WizMind Network Camera, NTSC
	IPC-HDBW5541EP- Z5E	5MP IR Vari-focal Dome WizMind Network Camera, PAL
	IPC-HDBW5541EN- Z5E	5MP IR Vari-focal Dome WizMind Network Camera, NTSC

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	PFA138	Junction Box
	PFB210W	Wall mount
Accessories	PFB300C	Ceiling mount
(optional)	PFA152-E	Pole mount
	PFA101	Mount adapter
	PFB201C	In-ceiling mount

Accessories

Optional:



In-ceiling Mount	Junction Mount	Pole Mount	
PFB201C	PFA138	PFB210W + PFA152-E	
0			
Ceiling Mount	Wall	Mount	
PFA101 + PFB300C	PFB210W(Indoor)	PFB210W(Outdoor)	

